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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,755	11/21/2003	Jeff Wagner	7678.810	1447
75	7590 05/04/2005		EXAMINER	
Rick D. Nydegger			STOKES, CANDICE CAPRI	
WORKMAN, N	YDEGGER & SEELEY			
1000 Eagle Gate Tower			ART UNIT	PAPER NUMBER
60 East South Temple			3732	
Solt Lake City LIT 94111				

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/718,755	WAGNER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Candice C. Stokes	3732				
The MAILING DATE of this communication appeariod for Reply	opears on the cover sheet v	vith the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu- Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. I.136(a). In no event, however, may a sply within the statutory minimum of th d will apply and will expire SIX (6) MC tte, cause the application to become A	a reply be timely filed nirty (30) days will be considered time DNTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	ly. communication.			
Status						
1) Responsive to communication(s) filed on	·					
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.					
•	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-32 is/are pending in the application						
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>25-29</u> is/are allowed.	•					
• • • • • • • • • • • • • • • • • • • •	☑ Claim(s) <u>1-16,30 and 32</u> is/are rejected.					
	☑ Claim(s) <u>17-24 and 31</u> is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>21 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The path of declaration is objected to by the i	LAMINIET. 140te the attach	od Office Action of form	10 102.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume	nts have been received. Ints have been received in Tiority documents have bee	Application No	I Stage			
* See the attached detailed Office action for a li	st of the certified copies no	ot received.				
			٠.			
Attachment(s)						
1) Notice of References Cited (PTO-892)		v Summary (PTO-413) o(s)/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		o(s)/Mail Date f Informal Patent Application (PT	O-152)			
Paper No(s)/Mail Date <u>2/23/04</u> .	6) Other: _	·				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11,14 and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Rubin (USPN 6,482,009). Rubin discloses a root canal testing implement and method using an endodontic device 10 for detecting moisture within a root canal comprising an endodontic cone as shown in Fig. 2. "The paper point of the invention is preferably formed from a piece of triangularly shaped absorbent paper 20, as shown in Fig. 1" (col. 4, lines 1-3). Furthermore, "the paper point of the invention is preferably pre-impregnated at its lower point or tip portion with a pH indicator region 22" (col. 4, lines 5-7). "The pH indicator, by change of color, will present information as to whether or not any moisture is present in the root canal and, secondly, whether or not the moisture is a positive pH or negative pH" (see abstract). As to Claim 14, Rubin discloses, "some of the specific pH indicators which can be used include, for example, those base testing pH indicators, such as phenolphthalein" (col. 4, lines 41-43).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10,16, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rubin in view of Eakin (USPN 6,559,351). Rubin discloses an endodontic device 10 for detecting moisture within a root canal comprising an endodontic cone as shown in Fig. 2 formed of water absorptive material and a moisture sensitive chemical indicator. However, Rubin does not disclose the moisture sensitive indicator comprising cobalt salt applied to the water absorptive material that changes color when moistened with water. Eakin teaches how cobalt salt may be used as a chemical indicator applied to a water absorptive material that changes color when moistened with water (see col. 3, lines 13-16). As to Claim 2, Rubin discloses "the paper point of the invention is preferably formed from a piece of triangularly shaped absorbent paper 20 as shown in Fig. 1" (col. 4, lines 1-3). Regarding Claim 5, Rubin teaches a chemical indicator (in this case a pH indicator), which would change one color when moistened with water, but, it is inherent that the chemical indicator would change a different color when moistened with sodium hypochlorite because water has a neutral pH and sodium hypochlorite is a base. As to Claim 16, in a method disclosed by Rubin "a dentist or technician can take a small piece of paper, roll it into a thin small diameter roll having a very small diameter lower end. The roll can then be dipped into a liquid (in this case a pH) indicator to impregnate the paper roll at least at the tip. Time must be allotted to any liquid carrier on the paper roll to dry" (col. 4, lines 26-31). It

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would have been obvious to one having ordinary skill in the art at the time of the invention to incorporate the cobalt salt instead of pH as the chemical indicator used for detecting moisture as taught by Eakin into the endodontic device disclosed by Rubin, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter or obvious design choice. *In re Leshin*, 125 USPQ 416.

Regarding Claims 3,4, and 9 Rubin and Eakin teach the claimed invention except for the cobalt salt comprising cobalt fluoride, cobalt iodide, or cobalt sulfate and cobalt chloride. It would have been obvious to one having ordinary skill in the art at the time of the invention to use any cobalt salt, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

As to Claims 6-7 and 10, Rubin and Eakin teach the claimed invention except for the endodontic device initially being blue and changing to pink when moistened with water and black when moistened with sodium hypochlorite. It would have been an obvious matter of design choice to provide the desired colored changes or any color changes as long as the colors are distinguishable from one another, since such a modification would have involved a mere change in color. A change in color is generally recognized as being within the level of ordinary skill in the art.

2) Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rubin. Rubin disclosed that claimed invention except for the pH changing material as claimed in the above-mentioned claims. It would have been obvious to one having ordinary skill in the art at

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the time of the invention to use any pH changing material, since it has been held to be within the

general skill of a worker in the art to select a known material on the basis of its suitability for the

intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Allowable Subject Matter

Claims 17-24 and 31 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Claims 25-29 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Candice C. Stokes whose telephone number is (571) 272-4714.

The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor. Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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